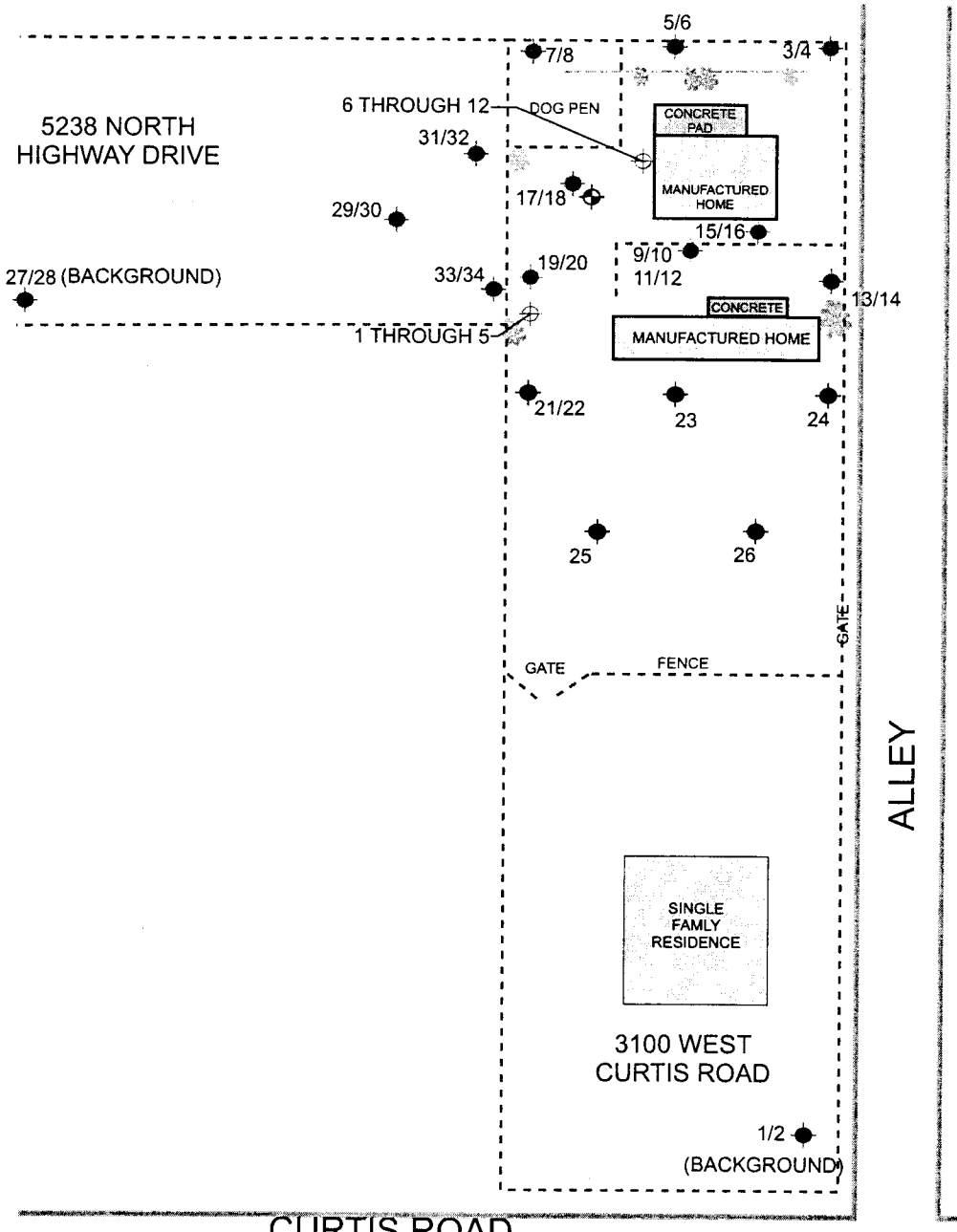
APPENDIX I

E.C. WINTER

EARLY RESPONSE ACTION



SOIL BORING LOCATION AND SAMPLE NUMBERS

SHALLOW SOIL SAMPLE LOCATION

EXISTING SOIL VAPOR MONITOR WELL

TREES

FENCE

N

0 15 30 60 120

APPROXIMATE SCALE 1"=60'

URS EARLY RESPONSE ACTION SAMPLING LOCATIONS

E.C. Winter Early Response Action

FIGURE 6

URS

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Table 6
Results for Total Lead in Shallow Soil Samples
E.C. Winter Site, Tucson, Arizona
January 2001

Location	Sample Number	Sample Depth	Total Lead (mg/kg)
1	01	12" –18"	13
	02	0 – 6"	53
2	03	12" –18"	9.4
	04	0 – 6"	43
3	05	12" –18"	22
	06	0 – 6"	480
4	07	12" –18"	8.3
	08	0 – 6"	85
5	09	12" –18"	7
	10	0 – 6"	1,200
6	11(D1)	12" –18"	8.3
	12 (D2)	0 – 6"	1,100
7	13	12" –18"	8.7
	14	0 – 6"	15
8	15	12" –18"	8.3
	16	0 – 6"	150
9	17	12" –18"	130
	18	0 – 6"	590
10	19	12" –18"	740
	20	0 – 6"	8,500
11	21	12" –18"	13
	22	0 – 6"	75
12	23	0 – 6"	17
13	24	0 – 6"	17
14	25	0 – 6"	20
15	26	0 – 6"	18
16	27	12" –18"	11
	28	0 – 6"	37
17	29	12" –18"	11
	30	0 – 6"	51
18	31	12" –18"	89
	32	0 – 6"	110
19	33	12" –18"	150
	34	0 – 6"	1,600
SRL	---		400
GPL	---		290

mg/kg = milligram per kilogram
D1 = Duplicate of sample 09
D2 = Duplicate of sample 10
SRL = Arizona Residential Soil Remediation Level
GPL = Minimum Groundwater Protection Level
= Results exceeding the SRL and GPL

Table 11
Results for Total Petroleum Hydrocarbons in Soil Boring 2
E.C. Winter Site, Tucson, Arizona
February 2001

Analyte	**Sample ID (022101-)**	6	7	8	9	10	11	**SRL**
(mg/kg)	**Depth (in feet)**	5.0	10.0	15.0	20.0	25.0	30.0	
DRO (C10-C22)		<30	**5,170**	**153**	<30	**722**	**32.1**	NE
ORO (C22-C32)		**178**	**48,100**	**1,230**	<130	**6,340**	**218**	NE
Total (C10-C32)		**178**	**53,300**	**1,380**	<130	**7,060**	**250**	4,100

mg/kg = milligram per kilogram
SRL = Arizona Residential Soil Remediation Level
NE = Not established
Bold = Analyte present in soil at a concentration greater than the laboratory method detection limit
= Results exceed the SRL

Table 7 (cont)
Results for Volatile Organic Compounds in Soil Borings
E.C. Winter Site, Tucson, Arizona
February 2001

Analyte (mg/kg)		Soil Boring #1			Soil Boring #2						SRL	GPL
	Sample ID (022101-)	01	03	05	6	7	8	9	10	11		
	Depth (in feet)	3.5	6.5	16.5	5.0	10.0	15.0	20.0	25.0	30.0		
trans-1,2-Dichloroethene		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	78	8.4
1,2-Dichloropropane		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	3.1	0.28
1,3-Dichloropropane		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	NE	NE
2,2-Dichloropropane		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	NE	NE
1,1-Dichloropropene		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	NE	NE
cis-1,3-Dichloropropene		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	2.4	NE
trans-1,3-Dichloropropene		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	2.4	NE
Ethylbenzene		<0.050	<0.050	<0.050	<0.050	**4.1**	<0.050	<0.050	<0.050	<0.050	1,500	120
2-Hexanone		<0.25	<0.25	<0.25	<2.5	<2.5	<0.25	<0.25	<0.25	<0.25	NE	NE
p-Isopropyltoluene		<0.050	<0.050	<0.050	<0.050	**2**	<0.050	<0.050	**0.12**	<0.050	NE	NE
Methylene chloride		<0.10	<0.10	<0.10	<0.10	<1.0	<1.0	<1.0	<0.10	<0.10	77	NE
4-Methyl-2-pentatnone (MIBK)		<0.25	<0.25	<0.25	**0.51**	**3.7**	**1.4**	<0.25	<0.25	<0.25	770	NE
Methyl-tert-butyl Ether (MTBE)		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	320	NE
n-Propylbenzene		<0.050	<0.050	<0.050	<0.050	**3.6**	<0.050	<0.050	**0.18**	**0.18**	NE	NE
Styrene		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	3,300	36
1,1,2,2-Tetrachloroethane		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	4.4	NE
Tetrachloroethene		<0.050	<0.050	<0.050	<0.050	**0.62**	<0.050	<0.050	<0.050	<0.050	53	1.3
Toluene		<0.050	<0.050	<0.050	<0.050	**5.7**	<0.050	<0.050	**0.7**	<0.050	790	400
1,2,3-Trichlorobenzene		<0.10	<0.10	<0.10	<1.0	<1.0	<1.0	<0.10	<0.10	<0.10	NE	NE
1,1,1-Trichloroethane		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	1,200	1
1,1,2-Trichloroethane		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	6.5	NE
Trichloroethene		<0.050	<0.050	<0.050	**0.056**	**53**	**0.23**	<0.050	**2.3**	<0.050	27	0.61
Trichlorofluoromethane		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	380	NE
1,2,3-Trichloropropane		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.014	NE
1,2,4-Trimethylbenzene		<0.050	<0.050	<0.050	**0.23**	**18**	<0.050	<0.050	**0.9**	<0.050	NE	NE
1,3,5-Trimethylbenzene		<0.050	<0.050	<0.050	**0.062**	**7.9**	<0.050	<0.050	**0.4**	<0.050	NE	NE
Vinyl acetate		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	780	NE
Vinyl chloride		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.016	NE
m,p-Xylenes		<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	2,800	2,200
o-Xylenes		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	2,800	2,200

mg/kg = milligrams per kilogram
SRL = Arizona Residential Soil Remediation Level
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